

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A projection system ~~for image reproduction by means of comprising:~~

at least one lamp; ~~as well as~~

at least one sensor for generating a sensor signal for monitoring changes in ~~the~~ luminous flux generated by said at least one lamp and for compensating ~~these the~~ changes ~~through a suitable control of the image reproduction, with a device~~ comb filter for eliminating substantially periodic interference components from the sensor signal generated by the at least one sensor, wherein filter characteristic of the comb filter is controllable by means of a signal synchronous with a control signal of a color modulator which causes the interference components.

2. (Currently Amended) The projection system as claimed in claim 1, wherein said ~~device comprises a comb filter for filtering~~ is configured to filter the sensor signal and for at least to substantially ~~suppressing~~ suppress frequency components of the sensor signal generated by the interference components.

Claim 3 (Canceled)

4. (Currently Amended) The projection system as claimed in claim 1, ~~wherein the device comprises further comprising an~~ amplifier for the sensor signal whose amplification ~~can be switched~~ is switchable in accordance with ~~the~~ frequency of the interference components so as to achieve an at least substantial suppression of the interference components.

5. (Withdrawn-Currently Amended) ~~A~~ The projection system as claimed in claim 1, ~~wherein the device comprises further comprising~~ a unit ~~(36; 36a)~~ for generating a sliding average of the sensor signal synchronized with the interference components, ~~as well as~~ and a subtractor (37; 37a) for subtracting ~~this the~~ sliding average

from the sensor signal.

6. (Withdrawn-Currently Amended) A The projection system as claimed in claim 5, ~~with further comprising~~ a micro controller (431) with a digital signal processing which comprises an analog/digital converter (A/D) for digitizing the ~~fed~~ sensor signal, ~~the unit (36a) in a digital embodiment~~ and a digital/analog converter (D/A) for converting the digital average value of the sensor signal generated with said unit (36a) into an analog sensor signal.

7. (Withdrawn-Currently Amended) A The projection system as claimed in claim 6, ~~in which wherein~~ the micro controller (431) comprises the subtractor (37a) in a digital embodiment, wherein one input of the subtractor (37a) is connected with ~~the an~~ output of the unit (36a) and ~~the other another~~ input of the subtractor is connected with ~~the an~~ output of the analog/digital converter (A/D), and wherein ~~the an~~ output of the subtractor (37a) is connected with ~~the an~~ input of the digital/analog converter (D/A).

8. (Withdrawn-Currently Amended) A The projection system as claimed in claim 7, in which the micro controller ~~(431)~~ instead of the digital/analog converter (D/A) comprises a transmitting unit ~~(435)~~ for generating a modulated sensor output signal for transmitting the same modulated sensor output signal to a lamp driver unit ~~(40)~~.

9. (Withdrawn-Currently Amended) A The projection system as claimed in claim 6, ~~in which wherein~~ the micro controller ~~(431)~~ is ~~provided for generating configured to generate~~ a synchronicity signal ~~on the basis of based on~~ an analysis of the sensor signal which is fed to the micro controller ~~(431)~~, with respect to periodically repeating wave forms, wherein the synchronicity signal is used for slidingly averaging the sensor signal.

10. (Withdrawn-Currently Amended) The projection system as claimed in claim 1, ~~with a wherein the~~ color modulator is configured for a time-sequential generation of primary colors, ~~wherein said device comprises and further comprising~~ a filter arrangement for splitting up a light portion guided in the

projection system into the primary colors, ~~as well as and an~~  
arrangement for ~~the compensation of compensating~~ different  
sensitivities of the at least one sensor to the primary colors  
through amplification and/or damping of ~~the a~~ relevant primary  
colors.

11. (Withdrawn-Currently Amended) ~~A~~ The projection system as  
claimed in claim 10, wherein said arrangement for ~~the compensation~~  
~~of the different sensitivities of the sensor compensating~~ comprises  
at least a transmission filter ~~(311, 321, 331)~~ having a suitably  
determined transmittance.

12. (Withdrawn-Currently Amended) ~~A~~ The projection system as  
claimed in claim 10, wherein further comprising a further sensor  
~~(301, 302, 303) with and~~ an amplifier ~~(312, 322, 332)~~ is provided  
for each primary color, and wherein ~~the~~ amplification of at least  
one of the amplifiers is adjustable for compensating for ~~the~~  
different sensitivities of the further sensors ~~(301, 302, 303)~~ to  
the primary colors, and a mixer ~~(342)~~ is provided for mixing the  
output signals of the amplifiers.

13. (Withdrawn-Currently Amended) The projection system as claimed in claim 1, ~~with further comprising a lamp driver unit comprising having~~ at least one of the ~~sensors~~ sensor and/or the ~~device for eliminating substantially periodic interference components from the sensor signal generated by the at least one sensor comb filter~~, wherein at least one optical fiber is provided for connecting the at least one sensor optically with ~~the a~~ light path of the light generated by the lamp.

14. (Currently Amended) The projection system as claimed in claim 1, wherein ~~the control of the an~~ image representation can be achieved through a control of ~~the brightness of the represented~~ image representation.

15. (Currently Amended) The projection system as claimed in claim 14, wherein the brightness of the ~~represented image~~ representation can be controlled through a change in the lamp current.

16. (Currently Amended) The projection system as claimed in claim 14, wherein the brightness of the ~~represented image~~ representation can be controlled by an electrically controllable filter, and/or by a gray level mask added to the ~~image information representation~~, and/or by a modification of ~~the~~ switching periods of the ~~a~~ display.

17. (Currently Amended) ~~The projection system as claimed in claim 1, with A projection system comprising:~~  
at least one lamp;  
at least one sensor for generating a sensor signal for  
monitoring changes in luminous flux generated by said at least one  
lamp and for compensating the changes with a device for eliminating  
substantially periodic interference components from the sensor  
signal generated by the at least one sensor; and

a time-sequential color rendering, wherein the periodic interference components are generated by ~~the~~ primary colors generated by a color modulator, and wherein the primary colors can be adjusted by means of the device for eliminating the interference components such that ~~the a~~ color temperature of ~~the represented an~~

| image projected by the projection system is adjustable.

18.(New) A projection system comprising:

at least one lamp;

at least one sensor for generating a sensor signal for monitoring changes in luminous flux generated by said at least one lamp and for compensating the changes; and

a filter for substantially eliminating from the sensor signal interference components caused by a device; wherein filter characteristic of the filter is controllable by a signal synchronous with the device that causes the interference components.

19.(New) The projection system of claim 19, wherein the filter is a comb filter.

20.(New) A projection system comprising:

at least one lamp;

at least one sensor for generating a sensor signal for monitoring changes in luminous flux generated by said at least one



lamp and for compensating the changes; and

a rendering unit configured to provide time-sequential color rendering, wherein interference components are generated by primary colors generated by a device, and wherein the primary colors are adjustable by the device for eliminating the interference components such that a color temperature of an image projected by the projection system is adjustable.